

**ABSTRACT OF THE DISCLOSURE**

Within a system-on-chip device 2 having multiple processing circuits 4, 6, 8,  
5 one processing circuit 4 may serve to perform diagnostic operations upon another  
processing circuit 8 by accessing diagnostic data relating to that other circuit. Thus,  
one processor may, for example, control and perform halting mode type diagnostic or  
code profiling upon another.

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[Figure 1]